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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

2101 WEBSTER STREET, SUITE 500 OAKLAND, CA 94612

> May 17, 1995 File No. 1114.17(SIM)

Ms Belinda Wei, Project Officer U.S. Environmental Protection Agency, Region IX Hazardous Waste Division (H-6-4) 75 Hawthorne Street San Francisco, CA 94105

Dear Ms. Wei:

Subject:

Quarterly Progress Report for the South Bay MSCA

Fiscal Year 94 for the Quarter 1 January - 31 March 1995

Attached are four copies of the quarterly report. As before, we are open to any constructive critique of this report to assist you in its review.

Please call me (510/286-0304) if you have any questions.

Sincerely,

Steve Morse

MSCA Program Manager

CC:

SRR, LPK, SAH, AGL, DAM

SWRCB/DAS(Budgets)

QUARTERLY STATUS REPORT

January - March 1995

SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT (MSCA)

EPA GRANT NUMBER V-009403-02-C (as of September 29, 1994)

State Water Resources Control Board

California Regional Water Quality Control Board San Francisco Bay Region South Bay Toxics Cleanup Division

May 15, 1995

QUARTERLY PROGRESS REPORT SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT January - March 1995

The goals of the MSCA for this phase are:

- To accelerate cleanup at Superfund sites in the South Bay.
- To augment the RWQCB's existing programs to ensure that the EPA's requirements, as defined in the National Contingency Plan (NCP), are met for those NPL sites assigned to the RWQCB as lead agency.

The South Bay Multi-Site Cooperative Agreement (MSCA), Phase II, was awarded and accepted by the State Water Resources Control Board effective April 13, 1988. This progress report for this phase is submitted to satisfy the Special Conditions. This report covers the October - December 1994 quarter as amended in subsequent grant offers, the latest being awarded September 29, 1994, to extend the agreement to June 30, 1995. An additional time extension to at least June 30, 1996, will be requested.

The MSCA Grant provides funding for activities of the state (i.e. State Board and Regional Board) responsible for coordinating and enforcing groundwater cleanup programs at Federal Superfund sites in the South Bay. The estimated expenditures, staff years, and accomplishments are compared to the work plans of January 28, 1988, March 9, 1989, February 13, 1990, January 1991, January 22, 1992 (w/ Regional Board workplan amendments of May 3, 1993), and December 1993 as further modified.

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QUARTERLY PROGRESS REPORT SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT January - March 1995

II - SPECIAL CONDITIONS

Besides the tasks in the MSCA's Workplan, some of the grant's Special Conditions require the State Water Resources Control Board (SWRCB) and the Regional Water Quality Control Board (RWQCB) to perform certain activities. The Revised Special Conditions responded to here are part of the grant offer of September 29, 1994.

An amended Workplan for 1994-1995 for \$723k was submitted to and approved by the EPA with an award September 29, 1994.

Under the terms of the Special Conditions, the Board requested that EPA redirect funds between several of the sites to cover unanticipated costs not budgeted. EPA has agreed to the redirection and included the redirection in the September 1994 grant award. Because the award was later than anticipated, and additional agreed upon work was also needed (and not needed) at some sites, redirection will probably be needed again. Additionally, under negotiations with US EPA it is intended to terminate the grant by utilizing state cost recovery vs. EPA grant funds. This process has yet to be worked out and still needs additional state work to assure constant funding for final oversight of the remaining work leading to final RODs as well as adequate funding when in a post-ROD (i.e. RD/RA, O&M) mode. Because of this the State will be requesting a no-cost time extension to at least June 30, 1996, to bring the State programs into line to accommodate the reduced EPA funding.

Due to a change in State accounting to allocate all non-site specific charges monthly (to the appropriate NPL sites in proportion to staff activity), the grant workplan non-site specific tasks (A, and B) and their accounting records can be misinterpreted. The budget and expenditures shown for this quarterly review are the total for all sites. EPA continues to finalize the few remaining MSCA sites for initial demands for cost-recovery started in early March 1992. EPA has to date received significant and substantial payments. It is expected that requests for additional annual cost-recovery payments will be made next year. The State will be working next calendar year to move all (or almost all) of the cost-recovery programs from the Superfund sites within the State system. Details are yet to be worked out; additional coordination with EPA will be necessary to finalize the change-over.

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III - SUMMARY AND STATUS OF MSCA TASKS AND BUDGETS

This Section provides a summary as well as details where necessary on the quarterly progress and status of the MSCA tasks in the Workplan approved in the September 1994 award.

To accelerate the cleanup at the South Bay Federal Superfund sites the EPA assigned the responsibility along with the necessary augmented funding to the State and Regional Boards to accomplish oversight and regulation of the South Bay Superfund sites under Federal and State law and regulations as well as EPA Guidelines.

In all instances the acute toxics threat and risk at the MSCA sites is now either under interim control (awaiting long-term solutions) due to aggressive earlier Board regulation and requirements for initial and interim investigations, removals, and remediation or the Board and EPA have adopted and the Responsible Parties are (or have) constructed and/or implemented the long-term remediation project to control chronic threats. The Regional Board's efforts are now focused primarily on the remaining sites requiring completion of any necessary investigations and development of cleanup alternatives (i.e. the RI/FS process) and a proposed cleanup plan (the RAP) for public review and comment (See Table, page III-5). After public review and comment, the Board will adopt the RAP in a Site Cleanup Order (i.e. CAO) as modified by public comment, staff recommendations and Board guidance. If EPA approves of the Board's actions and selects the same remedy (RAP), they will administratively adopt a Record of Decision (ROD). Close coordination with EPA is maintained during the process; there is no reason to believe that EPA would not choose the same remedy as the Board.

Significant Events and Activities During the Grant Quarter:

South Bay MSCA Superfund Site Cleanup Decisions (RI/FS/RAP): All the South Bay Superfund sites have accomplished significant amounts of work to meet Superfund final cleanup decision requirements. The tasks remaining are necessary to meet Federal Superfund (all of which the State requires as well) requirements to determine the best alternative considering protection of public health and the environment as well as the maintenance (i.e. high quality groundwater) and protection of the resource (i.e. water conservation and reclamation).

Official Board Actions during Quarter:

January: February: March:

Other MSCA Events/Activities during the Quarter:

Quarterly Enforcement Meeting: EPA and the Board project staff meet and/or discuss the more active site cleanup progress frequently during the quarter, especially on the few remaining sites awaiting adoption of final cleanup plans and EPA RODs. Several informal meetings and phone conferences were held between EPA and RWQCB management/staff to update EPA and RWQCB staff and determine program and site actions. No joint quarterly meeting was held between Cal/EPA DTSC, EPA, and the Board covering the enforcement status of the South Bay toxics cleanup sites - either Superfund or non-Superfund. This joint meeting was previously formalized in the updated South Bay Enforcement Agreement. At this time the primary area where the three agencies interface is the Stanford Industrial Park area in Palo Alto, Rhône-Poulenc in East Palo Alto where the DTSC was previously the lead agency, and at United Heckathorn and Liquid Gold sites in Richmond where the Board is a support agency to EPA and DTSC respectively.

South Bay Groundwater Task Force: Due to low past public attendance and interest, future meetings have been canceled unless a specific topic or site arises that warrants reconstitution of the task force. Contact with the usual participants of the Task Force is maintained through individual site-specific contacts.

Board staffing: During the quarter, the Board's staffing in support of the MSCA was satisfactory. Support of an Information System Technician (IST) is provided on an "as needed" basis. The Site Management System (SMS) was last updated in May 1994 for the first time in two years and an annual update is expected by mid-1995. In concert with an effort to reduce the amount of resources necessary to produce the Site Management System, the report will be updated through the use of the annual update (the first was May 1994) and followups via the RWQCB's

MSCA Tasks Status (cont.)

computer Bulletin Board System (funded initially by MSCA and now on-line since March 1993).

1994-1996 MSCA Workplan: Regional Board staff forwarded the 1994-1996 Workplan to the State Water Board for submittal to EPA on December 21, 1993. The State Water Board made an official application for the 1994-1996 in Spring 1994 and an amended application to better reflect actual funding needed Summer 1994.

The amended application comes as a result of a meeting with EPA program management in late January 1994, subsequent staff meetings during Spring 1994, and further clarifications and/or modifications of the workplan made in an attempt to match resources needed to EPA obligations. Additionally, EPA and RWQCB staff jointly wish to reduce the transaction costs by making the MSCA a state program with reimbursement directly to the state. These changes have yet to be fully implemented by both the State and EPA and a further time extension under the agreement is needed to complete the transition

EPA Cost-Recovery: In early March 1992, EPA began the process of cost-recovery for the MSCA sites. The demands are for combined costs of the Board (through June 30, 1991) and EPA (through July 31, 1991). By the end of March 1992, several RPs had already paid, and most of the remaining billed sites have paid either in full or partially. A cost-recovery suit has been filed by EPA against Intel, Kim Camp III, CTS Printex, and ADN. With the completion of the initial cost-recovery cycle, the beginning of a new annual cycle is expected to resume this year although EPA has made no commitments. SWRCB continued to prepare site accounting records as necessary.

Status and Funding of MSCA Tasks:

The overall total obligated funding status of the Grant tasks is satisfactory, especially with the new grant supplemental award received September 1994. However, even after the 1994 award, some redirection of grant funds will still be needed between sites due to work necessary (and not necessary) that was not anticipated in the workplan. The overall expenditures do not exceed the total MSCA obligations. The status of the individual tasks (and site budgets) varies (see

the individual tasks following for detailed descriptions):

- A. Program Management: Normal activities continue with an emphasis on assuring the final adoption of RAPs at several sites -- Rhône-Poulenc (wetlands) and National Semi's OU#2 -- and to assure that time schedules would be met. RD/RA and O&M continues at other sites. Further budget refinements may be necessary to match the grant application to actual award since there has been such a time lag.
- B. Site Management System: The SMS was officially updated for distribution in late May 1994 with an "as of" date of early 1994. It now appears that paper copies may still be necessary, at least of a limited nature, on an annual basis at least. After a limited initial distribution, copies are made available for viewing at the RWQCB office, at a local print shop at their cost, and as well as by BBS. Interim updates will be maintained on the BBS awaiting the annual update. Next annual update is expected by June 1995.
- D. Community Involvement: Up-to-date and continuing; see specific item. Community Involvement tasks are now accomplished by the respective project manager with some tasks being performed by a designated staff person to coordinate overall activities where necessary. Prior training, extensive planning, and use of PRP staff and resources have made this practical. The impact of this change affects primarily those sites awaiting final RAP/RODs (e.g. National OU#2 and Rhône-Poulenc Wetlands) and will be monitored closely by the Program Manager. Because of the staffing change, the Community Involvement task work is being incorporated into the other tasks, primarily Task A., Program Management, and E.2, NPL Oversight, and will not be reported separately in this or future quarterly reports unless a significant task or activity is being reported. Overall activities on the sites are reported in Task E.2. and will include Community Involvement activities.

We continue to provide copies to the public of the RWQCB/EPA brochure on "Status of Superfund Groundwater Cleanup in the South Bay" that was published and distributed in November 1993.

E2. NPL Site Oversight: Currently, we are able to keep up with the staff work load although

MSCA Tasks Status (cont.)

some schedules have slipped and are still slipping le.g. Rhône-Poulenc/Sandoz(Wetlands OU), National Semiconductor OU#2] due to the complexity of the sites (wetlands and multiple parties respectively). The typical scenario finds that as the cleanup tasks in the RI/FS workplan become solidified and finalized that details formerly unknown or unresolved take on an importance not previously appreciated (e.g. HP sites). Some unforeseen slippages in the current MSCA schedules have occurred and probably will occur again (e.g. agency agreement and oversight for the wetlands cleanup and remediation at Rhône-Poulenc, etc.). State staff will do everything in their power to minimize slippage. Additionally, the utilization of Operable Units is being used where a firm decision can be made on a given unit and a final decision on the remainder of the site can not be made for a considerably longer time (e.g. one year or longer). A review of the site schedule (page III-5) indicates actual and probable slippage from the schedules updated for this quarter and as changed since the last quarter's report.

An additional factor that may delay RODs, but probably not the state RAPs is activity by the State Department of Health Services in the preparation of Health Assessments (HA) under contract for the Agency for Toxics Substances and Disease Registry (ATSDR) as required by CERCLA/SARA. To date, it is still not clear what the significant differences are between ATSDR/DHS' Health Assessments and the Board's BPHE and Risk Assessments or how they will be involved in RAP/ROD decision-making since the HA will not normally be available until after the Board adopts a RAP. To date, no ROD has been knowingly held up because of ATSDR'S HA.

Mitigating these potential delays is the fact that the Board has required interim remediation, the definition work has been mostly completed (NSC OU#2), and the Board can implement enforcement quickly where needed and necessary. Staff is aware of slippages and is working to assure completion to the amended schedule as well as preventing further slippage. At this time no enforcement is planned.

Internal over expenditures by site are primarily caused by several administrative problems:

Within the tasks, CALSTARS reports utilized currently do not provide an

- appropriate breakout between indirect costs and contract costs.
- Within the task by site, over expenditures are caused by the implementation of respecific site budgets where none existed before and unanticipated work or difficulty of work that could not be foreseen by the original budget. With the new award of September 1994, redirection corrected this problem (by task) as it stood then, but additional, unanticipated site work has caused some over expenditures on some of the sites. For tracking purposes, the overall total grant budget must be utilized.
- The grant award was late due to delays in the submission and award; earlier over expenditures were covered by previous award budgets and were partially reconciled with the previous grant award budget redirections. No additional overall funding is requested at this time, but additional redirections were made with the September 1994 award and will be needed again. It is expected that redirections and a "clean-up" and reconciliation adjustment of the grant will be necessary in CY 1995.
- To facilitate cost-recovery, all non-site specific work (Tasks A, B, etc.) is allocated monthly to the MSCA sites in proportion to the site activity for the month. Again, the real test of budget and spending at this time is to compare the total "bottom line".

Under expenditures are usually caused by changes in work, over estimation of work (usually anticipated problems do not appear), delays in site cleanup (staff work not able to be performed due to project delays and awaiting reports), and changing requirements (reducing significant assistance at the MEW sites).

The table on page III-6 is a summary of the grant budget status of all the sites and shows the approved budget and total accumulated expenditures for staffing, expenses and contracts during the quarter and the life of the Cooperative Agreement (Phase II) since initial award April 13, 1988, including the July 90, May 91, June 92, July 93, and September 94 awards. The Regional Board Program Manager may

MSCA Tasks Status (cont.)

request a redirection between sites to reconcile sites budgets in 1995. No overall increase in total budget is foreseen due to these charges at this time (in fact a decrease from the forecasted budget was made in the recent grant award.)

Forecasted MSCA Tasks and Activities Next 3 - 6 Months:

- --Activity continues, as shown in the MSCA Schedule (see page 111-5), to develop NSC's OU#2 RI/FS, and finalizing Rhône-Poulenc's Wetlands RI/FS and RAP.
- --Maintain time schedules in Community Relations Plans in coordination with overall schedule, especially NSC and Rhône-Poulenc sites.

SOUTH BAY MSCA SCHEDULE

(updated 2/21/95 by RWQCB; # indicates change since last report)

	and Ava	AP Completed slable for comment	Final RAP/ROD Adopted				
Site	mo/yr	FFY/Q	mo/yr	FFY/Q			
1. Advanced Micro Devices - Arques	RI/FS adopted; ROD signed; RA and O&M underway						
2. Advanced Micro Devices - Bldg 901/902	RI/FS adopted; ROD signed; RA and O&M underway						
3. Advanced Micto Devices 915	RI/FS adopted; ROD signed; RA and O&M underway						
4. Applied Materials	RI/FS, RAP adopted; ROD signed/amended; RA and O&M underway						
5. CTS Printex	RI/FS and RAP adopted; ROD signed; RA and O&M underway						
6. Fairchild, San Jose RI/FS and RAP adopted; ROD signed; RA and O&M underwa							
7. Hewlett Packard, 1501 Page Mill	7. Hewlett Packard, 1501 Page Mill RI/FS compl.; RAP adopted by RWQCB 8/17/94; RA and O&M underway						
8. Hewlett Packard, 640 Page Mill	RI/FS compl.; RAP adopted by RWQCB 9/21/94; RA and O&M underway						
9. Hexcel	P. Hexcel RAP/ROD Sep 93, but now no longer part of the MSCA (NPL delisting)						
10. Intel Magnetics / Micro Storage	10. Intel Magnetics / Micro Storage RI/FS adopted; ROD signed; RA and O&M underway						
11. Intel Santa Clara III RI/FS & RAP adopted; ROD signed; RA and O&M underway							
12. International Business Machines	ss Machines RI/FS and RAP adopted; ROD signed; RA and O&M underway						
13. Intersil / Siemens RI/FS and RAP adopted; ROD signed; RA and O&M underv							
14. National Semiconductor	4. National Semiconductor						
Operable Unit 1	RI/FS adopted; ROD signed; RA and O&M underway						
Operable Unit 2	TBD(early 97)#	TBD(early 97)#	TBD(early 97#)	TBD(early 97#)			
15. Rhône Poulenc/Sandoz Crop Prot Corp							
Uplands Operable Unit	ompleted 11/92 (An	nex ESD 3/94)					
Wetlands Operable Unit	TBD(7/95?)	TBD (95/3?)	TBD (9/95?)	TBD (95/4?)			
16. Signetics	RI/FS adopted; ROD signed; RA and O&M underway						
17. Solvent Services	RI/FS & RAP adopted; ROD signed; RA and O&M underway						
18. Spectra Physics	RI/FS adopted; ROD signed; RA and O&M underway						
19. Synertek 1	RI/FS & RAP adopted; ROD signed; RA and O&M underway						
20. Teledyne	RI/FS adopted; ROD signed; RA and O&M underway						
21. TRW/FEI Microwave	RI/FS adopted; ROD signed; RA and O&M underway						
22. Van Waters & Rogers	RI/FS and R	AP adopted; ROD s	igned; RA and O&	M underway			

TBD=To Be Determined Notes: Federal lead

Federal lead sites, for which RWQCB receives funding under MSCA for its support activities, have identical milestones, but are not included here since the RWQCB is not directly responsible for meeting those time schedules. The State-required RAPs are final when the NBAR is completed; does not affect the Federal Superfund process, only state required Non-Binding Allocation of Responsibility (i.e. NBAR).

MSCA EXPENDITURE/DRAWDOWN DATA MULTI-SITE THROUGH 03/31/95

	**				•	1	1	ALL FIS	CAL YEAR DAT	A	
MSC4			BAL OF	AWARD	AWARD						•
PHASE!	ACCOUNT	AMOUNT	AWARD	09-V-009	09-V-010	TOTAL				NEXT	UNABLE TO
PROJECT #	NUMBER	AUTHORIZED	09-V-005	07/09/93	09/29/94	AUTHORIZED	CUM EXP	CUM DRAWS	DIFF	DRAW	DRAW
MSCA02-00		0 00				0.00	0.00	0.00	0.00	0.00	0 00
MSCA02-01		0.00				0.00	0.00	0 00	0.00	0.00	0.00
MSCA02-02	K382/KN82/KP82	157,528.00	12,945.00	28,000.00	7,846.00	206,319.00	153 238 51	152,993.74	244.77	244 77	0 00
MSCA02-03	K3H1/KNH1/KPH1	130,184.00	12,945.00	34,004.00	٠	177,133.00	106,206.41	105,968.01	238.40	238 40	0.00
MSCA02-04	KP83	245,248.00		58,743.00	82,790.00	386,781.00	356,789 83	354,861.74	1,928.09	1,928 09	00 0
MSCA02-05	K384	37,378.00	11,030.00		•	48,408.00	7,721.47	7,721.47	0.00	0.00	0.00
MSCA02-06	: KP62	46,543.00		22,760.00	71,069.00	140,372.00	87,167.67	86,121.39	1,046.28	1,046 28	0 00
MSCA02-07	KN85/KP85	271,777.00		165,321.00	6,381.00	443,479.00	345,719.14	343,383.32	2,335.82	2,335.82	0.00
MSCA02-08	KNH9/KPH9	407,106.00		152,700.00	17,116.00	576,922.00	483,142.13	479,389.14	3,752.99	3,752 99	0.00
MSC 402-09	K340/KN40/KP40	71,058.00	11,030.00	27,559.00	28,416.00	138,063.00	80,006.59	78,449.99	1,556.60	1,556.60	0 00
MSCA02-10	K386	38,408.00				38,408.00	6,003.90	6,003.90	0.00	0 00	0 00
MS0402-11	KP88	118,452 00	11,030.00	18,150.00	51,820.00	199,452.00	157,074.22	156,446.47	627.75	627 75	00.0
MSC 402-12	KN87/KP87	170,899 00	11,030.00	18,150.00	49,802.00	249,881.00	197,265.99	196,496.03	769 96	769 96	0.00
SCA02-13/2	KNJ2/KPJ2	118,345.50	11,030.00	30,164.00	32,914.00	192,453 50	125,556.93	124,275.67	1,281.26	1,281.26	0 00
MSC402-14	KP89	47,178 00		28,371.00	31,398.00	106,947.00	61,893.01	61,881.51	11 50	11.50	0.00
MSCA02-15	K3C7	4,620 00				4,620.00	0.00	0.00	0.00	0 00	0.00
MSCA02-16	KP90	217,117.00		49,803.00	37,983.00	304,903.00	258,822.13	258,283.57	538.56	538 56	0 00
MSCA02-17	KP91	300,623 00		33,085.00	121,250.00	454,958.00	406,037.17	404,729 54	1,307.63	1,307 63	0 00
MSCA02-18	K3H5/KNH5/KPH5	151,844.00	10,063.00	17,889.00	33,777.00	213,573.00	164,400.39	160,728.19	3,672.20	3,672.20	0 00
MSCA02-19	K393	28,408.00	,			28,408.00	5,880.53	5,880.53	0.00	0.00	0 00
MSCA02-20	K3J2	118,345.50				118,345.50	103,465.86	102,496.55	969.31	969.31	0 00
MSCA02-21	KN94/KP94	125,380.00	12,945.00	31,904.00	18,140.00	188,369.00	138,554.80	138,137.64	417.16	.417.16	0 00
MSCA02-22	K3K1/KNK1/KPK1	162,354.00	14,530.00	31,958.00	3,997.00	212,839.00	177,927.97	177,149.74	778.23	778 23	0 00
MSCA02-23	K3K3/KNK3/KPK3	127,045.00	11,030.00	18,150.00	21,067.00	177,292.00	124,928.02	124,821.64	106 38	106.38	0 00
MSCA02-24	K3K4/KNK4/KPK4	165,091.00	12,945.00	28,103.00		206,139.00	142,103.54	141,859.29	244.25	244.25	0.00
MSCA02-25	K395/KN95/KP95	157,952.00	14,530.00	31,958.00	11,949.00	216,389.00	178,758.64	177,869.25	889.39	889.39	0 00
MSCA02-26		0.00				0.00	0.00	0.00	0.00	0.00	0 00
MSCA02-27	K396/KN96/KP96	206,905.00	10,063.00	21,984.00	2,354.00	241,306.00	197,249.75	195,413.92	1,835.83	1,835.83	. 0.00
MSCA02-28	K397KN97/KP97	38,408.00	8,770.00	16,371.00	18,760.00	82,309.00	43,956.14	43,002.67	953.47	953 47	0 00
MSCA02-29	KN98/KP98	431,680.00		169,790.00		601,470.00	521,418.17	517,368.60	4,049.57	4,049.57	0 00
MSCA02-31	K3F6KNF6/KPF6	38,591.00	5,305.00	9,168.00	4,149.00	57,213.00	11,119.04	11,116.65	2.39	2.39	0 00
MSCA02-32	K3J9/KNJ9/KPJ9	164,154.00	11,030.00	18,150.00	2,464.00	195,798.00	152,281.11	149,576.92	2,704.19	2,704.19	0.00
MSCA02-33	· KNJ1/KPJ1	277,412.00		116,753.00		394,165.00	. 273,134.15	272,919.33	214.82	214.82	0.00
1450402-34	KPR3	27,997.00		15,405.00	35,629.00	79,031.00	41,077.33	41,006.96	70.37	. 70.37	0.00
MSCA02-35	KP47	8,078.00		33,745.00	32,043.00	73,866.00	36,459.95	36,415.41	44.54	44 54	0.00
MSGA02-36	KNM6/KPM6	,	206,989.00	49,369.00		256,358.00	8,432.22	8,414.69	17.53	17 53	0.00
	•	4,612,109 00	399,240.00	1,277,507.00	723,114.00	7,011,970.00	5,153,792.71	5,121,183.47	32,609.24	32,609 24	0.00

SITE 64 1,213,951.00 8,225,921.00 IPA 67,358.00 TOTAL 8,293,279.00

May 15, 1995: Jan - Mar 95 Otr Rpt

Page III-6

PROGRAM ELEMENT A: PROGRAM MANAGEMENT

The RWQCB is responsible for continued coordination and implementation of the South Bay MSCA Program. These activities include, but are not limited to, the following:

- Maintaining the direction, scope, and quality of the South Bay Program
- Planning and oversight of the overall program schedule and budget
- Interagency coordination
- Staffing requirements and recruitment
- Supervision of Community Involvement
- Program analysis and development
- Supervision of procurement

Product

The products for Task A are the successful completion of all the tasks identified and funded under this phase of the South Bay MSCA.

Additionally, most site-file cost-recovery work will be initially charged against this task with allocation among the sites made later depending upon the actual work necessary to establish and maintain individual site-specific cost files. Within the overall program management, the most significant program management activities during this period involved the coordination / management necessary to meet MSCA time schedules; updating the SMS; and day to day supervision and management of ongoing MSCA tasks at ROD adopted sites (i.e. ongoing RD/RA and O&M).

State Budgeted Activities

Task A involves supervising and implementing specific tasks (i.e. contracts) included in the MSCA. There is no existing state-funded budget provided for this activity. All Task A funding is MSCA funded by site.

Costs

The expenditures for the quarter as well as the grant period through 31 March 1995 are combined with the other tasks and included in the Program Budget Table on page 6.

PROGRAM ELEMENT B: SITE MANAGEMENT SYSTEM

Task Description

Under the earlier and current MSCA agreements the RWQCB implemented a computerized system to track RI (site remedial investigation), FS (feasibility studies / alternatives evaluation), and the implementation of remedial action activities for use of the RWQCB, Cal/EPA-DTSC and EPA management personnel for use in site enforcement and task tracking.

Additionally, as part of the community involvement program the SMS has been distributed to 15 municipal agencies, 9 libraries, 7 state and federal agency representatives, 2 environmental groups, and 1 manufacturers group, as well as sold (for reproduction costs) to those desiring it (primarily consultants).

Products

The Board has changed the SMS according to the revised workplan. The 1992-93 workplan supported a significantly reduced SMS effort, at least for the "paper" portion. Regional Board implemented this "new" SMS in early 1993 utilizing a computer Bulletin Board format with a computer purchased in December 1992 utilizing MSCA funds. The BBS portion went on-line March 18, 1993. The yearly updated paper edition was updated May 1994 with an as-of date of early 1994 and distributed to EPA, Cal/EPA-DTSC, and various governmental and public agencies and interest groups.

Continuing updates until the next annual paper update will be maintained for public and staff access on the BBS. A paper update is expected in mid-1995.

State Budgeted Activities

There is no existing State-funded budget or activities for the Site Management System.

Cost

Expenditures for Task B are included in the Program Costs Table on page 6.

PROGRAM ELEMENT D: COMMUNITY INVOLVEMENT

Task Description and Objectives

The main objectives of community involvement activities performed under the MSCA are:

Provide the general public with information on ground water systems, water supply sources, water quality, hazardous waste regulatory processes, and scope, progress and findings of remedial response activities.

Provide sufficient background information about technical and environmental issues to help the public understand and assess remedial actions.

Provide information, especially technical findings, in a form understandable to the general public.

Provide elected officials and the media with timely detailed information at key points throughout program activities.

Use the media as a major means of disseminating information to the general public.

Establish a two-way information exchange with environmental, public interest, and other concerned groups throughout the remedial response program.

Provide the means for all interested individuals to express concerns and make inquiries throughout project activities. (the opportunity for two-way communication is particularly important because of the length and complexity of the project).

Use the Groundwater Task Force, for overall coordination and review of community involvement efforts.

Create an interagency community involvement team to further coordinate the flow of information from agencies to the public.

Monitor public concerns and information needs

Modify the community involvement plan(s) to respond to changes in community attitudes and needs.

Community involvement activities conducted under the MSCA function independently, but coordinated with, EPA's area wide (but limited) community involvement strategy as well as DHS's site community involvement programs.

Specifically, the RWQCB will be responsible for providing information and directing community involvement activities for RWQCB-lead sites.

Community Involvement activities are now significantly reduced as the IGA staff on-loan from EPA returned to EPA in October 1993 and all Community Involvement work will now be handled by Board staff. Losing the full-time staff is mitigated by the reduced workload with only several sites awaiting completion of RAP/RODs as well as significant planning to assure a satisfactory transition.

Products

Per earlier explanation, all Community Involvement activities are now combined into the project managers' tasks of site oversight.

Future Activities

Future activities are currently scheduled to meet the MSCA Special Conditions, especially for the sites awaiting final RAP/RODs.

Costs

All costs for Community Involvement are now included in the other tasks as part of the every day work. All Community Involvement work will now be performed by state employees. See the Table on page III-6 for overall grant budget status that includes Community Involvement costs by site.

PROGRAM ELEMENT E: TIER I ACTIVITIES

Tier I activities are those activities that occur at specific sites in the South Bay.

TASK E1.* **IDENTIFICATION OF NEW** SITES

TASK E2.

RWQCB OVERSIGHT OF NPL PRP ACTIVITIES

SCREENING OF NEW SITES. TASK E1a.*

IN ORDER TO CONDUCT Pas ON MOST SENSITIVE

SITES

TASK E1b.* OVERSIGHT OF PRP SI

*Note: These tasks were not requested for funding in this Phase; they may be considered at a later time if conditions change.

TASK E2. RWQCB OVERSIGHT OF NPL PRP ACTIVITIES

Regional Board activities in this task cover the RI/FS oversight RD/RA and/or regulation underway at the 30 South Bay MSCA Superfund sites (31 companies/agencies either final and proposed including Liquid Gold and United Heckathorn in Richmond) for which the Board as a regulatory agency has either the current lead (21) or the supporting agency role (9). The current Agency-Lead and NPL Status as of this report are covered below.

EPA Lead Superfund Sites:

- *1. Fairchild Semiconductor Corp., 464 Ellis St., Mountain View
- *2. Intel Corp., 365 E. Middlefield Rd., Mountain View
- Jasco Chemical Company, 1710 Villa St., Mountain View
- 4. Lorentz Barrel and Drum, 1515 S. 10th St., San Jose
- * Moffett Naval Air Station, Sunnyvale (no longer part of South Bay MSCA)
- *5. Raytheon Company, 350 Ellis St., Mountain View
- 6. United Heckathorn, Richmond
- 7. Westinghouse Electric Corporation, 401 E. Hendy Ave., Sunnyvale

RWQCB Lead Superfund Sites:

- *1. Advanced Micro Devices, 901 Thompson Pl, Bldg.901, Sunnyvale
- 2. Advanced Micro Devices, Bldg. 915., 915 Deguigne Dr., Sunnyvale
- *3. AMD-Arques, (formerly Monolithic Memories, Inc.), 1165 East Arques Ave., Sunnyvale
- 4. Applied Materials, 3050 Bowers Avenue, Santa Clara
- 5. CTS Printex, 1905-1931 Plymouth St., Mountain View
- 6. Fairchild Camera and Instrument Corp., Bernal Road, San Jose
- Hewlett-Packard, 640 Page Mill Rd., Palo Alto
- 8. Hewlett-Packard, 1501 Page Mill Rd., Palo Alto
- * Hexcel, Livermore (no longer part of South Bay MSCA)
- 9. Intel Facility III, 2880 Northwestern Parkway, Santa Clara
- Intel Magnetics/MicroStorage, 3000
 Oakmead Village Dr., Santa Clara
- 11. International Business Machines, Cottle Road, San Jose

- *12. Intersil, Inc., and Siemens Components, Inc., Cupertino
- *13. National Semiconductor, 2900 Semiconductor Dr., Santa Clara
- Rhône-Poulenc/Sandoz, 1990 Bay Road, East Palo Alto
- *15. Signetics, 811 E. Arques, Sunnyvale
- Solvent Services, 1022 Berreyessa Road, San Jose
- *17. Spectra-Physics, Inc., 1250 West Middlefield Road, Mountain View
- 18. Synertek #1, Santa Clara
- *19. Teledyne Semiconductor, 1300 Terra Bella Ave., Mountain View
- *20. TRW Inc., 825 Stewart Pl., Sunnyvale
- 21. Van Waters & Rogers, Inc., 2256 Junction Ave., San Jose
 - * above sites will be treated as part of a combined site, at least for off-site work.

Cal/EPA-DTSC Lead Superfund Sites:

1. Liquid Gold, Richmond

EPA NPL Modifications (RCRA "drop" sites):

EPA's proposed rule-making in June 1988, (NPL Update #7) recommended that 6 NPL sites be deleted from the NPL since they are RCRA sites. Two other RCRA sites were proposed to be retained on the NPL. RWQCB officially commented to EPA-HQ on this proposal to delete high-priority RCRA sites by questioning the timeliness of the RCRA regulation update, future MSCA funding for these CERCLA/RCRA sites, and the lack of Technical Assistance Grants to citizen groups for RCRA (only) sites. EPA-IX has stated that the RCRA sites (proposed deleted and those remaining) will be treated as NPL sites to assure attention to cleanup appropriate to their NCP HRS scoring.

On October 4, 1989, EPA announced its final rule on the dropping of some of the NPL sites that are also RCRA sites. Under this rule, the following sites have been dropped from the NPL:

Hewlett-Packard, 1501 Page Mill Road IBM, San Jose Rhône Poulenc/Sandoz, East Palo Alto Signetics, Sunnyvale Van Waters and Rogers, San Jose

EPA and the Board, per policy, continue to treat the RCRA "drop" sites the same as NPL sites in terms of requirements, tasks, and cleanup. Due

to staffing constraints, the RWQCB's final Site Cleanup Order adopting the RI/FS and RAP will be the last regulatory action. Review and comment on the RWQCB's SCR by EPA-IX will suffice for approval unless the EPA is in disagreement with the RWQCB's actions.

Products during Reporting Period:

Regional Board actions / Orders affecting the South Bay MSCA:

January: February: March:

South Bay MSCA Superfund Site Cleanup Decisions (Remedial Investigations/Feasibility Studies/Remedial Action Plan): All the South Bay Superfund sites have performed significant amounts of work to meet Superfund final cleanup decision requirements. The tasks remaining are necessary to meet State and Federal Superfund (almost all of which the State requires as well) requirements to determine the best alternative cleanup plan considering protection of public health and the environment as well as the maintenance (i.e. high quality groundwater) and protection of the resource (i.e. water conservation and reclamation).

Board staff conducted the following tasks as detailed in the EPA OSWER Memorandum dated October 1,. 1986, entitled, "CERCLA Funding of Oversight of Potentially Responsible Parties by States at National Priority List Sites."

Review Tasks (all sites):

- --Reviewed and commented on scope of work and work plans (all work plans requested and approved as of August 1990; updating due to operable units still may be necessary)
- --Reviewed and commented on updates to Safety Plans
- --Reviewed and Commented on drafts of portions of RI reports (all)
- --Reviewed/discussed FS objectives
- -- Completed PRP reports (all)
- --Organized and participated in technical meetings on the RI/FS with PRPs, PRP contractors, and/or EPA. (all)
- --Provided Technical Support to the Community Relations Task for:

Briefing of local and state officials
Prepared fact sheets and press releases

Field Related Tasks:

--On-site presence/inspection as necessary (all)

In addition, at RWQCB lead sites the following tasks were in progress by RWQCB staff or contracted by the RWQCB:

- --Data Validation (all by IAG with DHS)
- --Public Health Baseline Evaluation
 (all work other than by PRP is by EPA or
 by contract award to ICF/Clement for both
 BPHE, BPHE review, and RI/FS review)
- --Maintenance of the Administrative Record (primary use of PRPs for initial preparation)
- --Continue Implementation of Cost Recovery
 (all)

For those sites where the RWQCB is the Support Agency, staff provided support in the tasks described above to the extent necessary but not to exceed the staffing levels previously approved. Sites primarily affected: MEW, Lorentz, United Heckathorn, Westinghouse, JASCO, Liquid Gold.

For those sites under Regional Board lead, the IBM, Fairchild San Jose, Applied Materials, Intel SCIII, Intersil/Siemens, Solvent Services, AMD 901/902, AMD 915, AMD Arques, CTS Printex, National Semiconductor OU#1, Microstorage/Intel Magnetics, Signetics, Rhône-Poulenc/Sandoz (Uplands OU), TRW/FEI Microwave, Teledyne, Spectra-Physics, Synertek #1, Van Waters & Rogers, Hewlett-Packard 640 and 1501 Page Mill Road sites, and Hexcel (now delisted), sites have completed the RI/FS and RAP and a ROD have been signed in this MSCA grant phase (See Table, Page III-5).

Costs and Budgets: Even with the addition of the latest grant awards and the budget redirection among sites, some site specific over-and under-expenditures are occurring. While no new grant funds were required, proposed redirection among sites in the September 1994 award have been made, but it now appears that further redirection will be necessary late CY 1995.

The following is a description of the MSCA funded staff work and the current status at each of the MSCA Superfund sites.

REGIONAL BOARD LEAD SUPERFUND SITES:

ADVANCED MICRO DEVICES 901-902, SIGNETICS, TRW (FEI) MICROWAVE (THE COMPANIES)

The Final Remedial Action Plan (RAP) for the combined site(s) was adopted by the Board in June 1991. EPA adopted the ROD in September 1991.

Advanced Micro Devices (AMD) is continuing to implement the site cleanup plan. Remediation at the AMD site consists of extraction and treatment of groundwater, and excavation of approximately 37 cubic yards of residual soil contamination.

During the last quarter, groundwater extraction continued at 9 on-site extraction wells. The total volume of groundwater extracted during the quarter was 2.8 million gallons, averaging 25 gpm. A total of 4.8 pounds of VOCs were removed from the groundwater. Extracted water is treated utilizing an air stripper, and discharged under NPDES permit.

During the next two quarters, AMD will continue groundwater extraction and treatment. To enhance recovery of VOCs in groundwater, and because of rising groundwater elevation levels, groundwater extraction and treatment will be increased during the next quarter. Staff have authorized the increase in discharge from the NPDES permitted system.

TRW Microwave is continuing to implement the site cleanup plan. Site remediation at the TRW site consists of extraction and treatment of groundwater and soil vapor extraction. Because residual soil contamination at the site is minimal and at depths below the groundwater table, no further soil remediation has been required.

During the last quarter, groundwater extraction continued at 7 groundwater extraction wells and an eductor pit. Groundwater was extracted at approximately 11.3 gallons per minute, and the total volume extracted during the quarter was 1.7 million gallons. A total of approximately 42 pounds of VOCs were removed from the groundwater. Extracted water is treated utilizing an air stripper, and discharged under NPDES permit. The system was shut down for a two week period for repairs to electrical and mechanical components.

Although no further soil remediation has been required, TRW operates a soil vapor extraction system adjacent the eductor pit to enhance groundwater remediation.

During the first quarter, soil vapor was removed from a total of 11 extraction points. During the first quarter, the SVE system removed a total of 3 pounds of VOCs. Groundwater monitoring generally shows a continued decline in groundwater contamination levels.

During the next two quarters, TRW will continue groundwater and soil vapor extraction and treatment.

Philips Semiconductors (formerly Signetics) is continuing to implement the site cleanup plan. Site remediation at the Philips Semiconductors site consists of extraction and treatment of groundwater and soil vapor extraction.

During the last quarter, groundwater extraction continued at extraction wells, extraction trenches, and basement dewatering systems. The total volume of groundwater extracted was 14.8 million gallons, and a total of approximately 228 pounds of VOCs were removed from the groundwater. Extracted water is treated utilizing an air stripper, and discharged under NPDES permit. The soil vapor extraction system removed a total of 6.0 pounds of VOCs. The cumulative mass of VOCs removed since October 1988 was 731 pounds. The vapor extraction system was temporarily shut down during the 1st quarter in order to further determine the feasibility of pulse pumping.

During the next two quarters, Philips will continue groundwater extraction and treatment.

TRW, Philips, and AMD are continuing to implement the site cleanup plan for the Off-Site Operable Unit, the area north of the TRW/AMD/Philips sites which appears to be impacted by all three sites. Remediation at the Off-Site Operable Unit consists of two groundwater extraction systems, one located along Alvarado Avenue, the other at along Duane Avenue.

During the last quarter, groundwater extraction continued at the Alvarado and Duane Avenue extraction systems. Groundwater was extracted at rates of approximately 152 gallons per minute. The total volume extracted during the quarter was 19.8 million gallons. A total of 122 pounds of VOCs were removed from the groundwater. Extracted water is treated utilizing air strippers, and discharged under NPDES permit.

During the next two quarters, the companies will continue groundwater extraction and treatment.

ADVANCED MICRO DEVICES, BUILDING 915, 915 DEGUIGNE DRIVE, SUNNYVALE

Advanced Micro Devices (AMD), is continuing to implement the site cleanup plan specified in the ROD adopted in August 1991. Groundwater is being remediated via groundwater extraction and treatment. All contaminated soil has been removed from the site. During the last quarter, groundwater extraction continued at 9 on-site extraction wells. The total volume of groundwater extracted during the quarter was 7.3 million gallons, averaging 66 gpm. A total of 32 pounds of VOCs were removed from the groundwater. Extracted water is treated utilizing an air stripper, and discharged under NPDES permit. The groundwater contamination plume appears to be contained beneath the site, and appears to be impacted from upgradient sources.

During the next two quarters, AMD will continue groundwater extraction and treatment.

APPLIED MATERIALS, INC. BUILDING 1, 3050 BOWERS AVENUE, SANTA CLARA

The final Remedial Action Plan (RAP) for the Building 1 site was adopted by the Board in September, 1990. A ROD for a groundwater Operable Unit was adopted 9/28/90; a Final ROD was adopted 8/25/93. A Superfund Preliminary Close Out Report was issued 9/27/93. The Cleanup Plan for this site includes only groundwater extraction and treatment by air stripping.

Activities this quarter: Staff completed the review and report for the Five-Year Status Report and submitted the review report to the EPA for comments. EPA's comments were addressed and the report was finalized, signed, and resubmitted to the EPA; a copy was sent to AM. It has been recommended by Staff that the NAZ (NAA) proposal be considered separately from the Five-Year Status Report, and that if AM believes the concept can be applied to the Building 1 site, then a revised proposal should be submitted as a separate document. There may be some DNAPL present on this site but not in significant amounts and not in localized concentrated accumulations; it does not seem practical for AM to attempt to find and remove any DNAPL which may be present.

AM's reporting frequency for SCR reports is now semiannual. The WDR (NPDES) report was submitted as required by the new reporting schedule (quarterly instead of monthly). The waste discharge and site cleanup activities were in compliance with Board Orders. The Annual Report required by Board Order (SCR) covered the period February 1994 - January 1995 and was received March 14, 1995. This report showed that a total of 2.23 pounds of VOCs were removed from groundwater during the period October 11, 1994 to January 11, 1995.

Projected events for next two quarters: AM is expected to submit periodic reports as required. Staff will propose submitting the Staff Report for the Five-Year Status Report to the Regional Board as an information item, tentatively at the June 1995 Board Meeting. No change in Board Orders will be recommended, and no action by the Board will be required.

CTS PRINTEX, 1905, 1911, 1921, AND 1931 PLYMOUTH STREET, MOUNTAIN VIEW

The Final RAP was approved on May 15, 1991 under Site Cleanup Order No. 91-081. The cleanup plan consists of extraction and treatment of groundwater until cleanup standards are met, and long term monitoring.

During the last quarter, CTS extracted about 300,000 gallons of water and discharged this waste to the POTW. The remediation system began extracting groundwater in 1987. Since then, over 100 pounds (over eight gallons) of TCE have been removed. Significant reductions in TCE concentrations were achieved during the first years of operation. However, monitoring well data show that TCE concentrations are approaching asymptotic levels.

Board staff met with CTS on March 7, 1995 to discuss modifying existing groundwater pumping and monitoring at the site. Computer modeling and extensive pumping tests indicate that groundwater extraction can be optimized by pumping from selected wells. The optimal pumping rates still provide the same capture zone as before while extracting less water and preventing potential cross contamination from other sources. Board staff subsequently approved the requested modifications.

Board staff has identified a potential upgradient source and has requested them to perform preliminary site investigations. An initial report is due by May 26, 1995.

During the next six months, CTS will continue groundwater monitoring and extraction. Board staff will evaluate the reduced pumping regime. Board staff will also continue investigations of upgradient sources.

FAIRCHILD, SAN JOSE

The final Remedial Action Plan (RAP) was adopted by the Regional Board in January 1989 and amended in May 1990. It included continued groundwater extraction (on and off-site) and SVE for dewatered zones within the on-site slurry wall. The RAP set cleanup standards

for on-site groundwaters at MCLs and for off-site groundwaters at less than one fourth the MCLs.

Board staff approved a temporary shut-down of the offsite extraction wells in December 1991. Computer modeling shows that groundwater pumping is ineffective in speeding up remediation of the aquifers at this site; the model predicts that off-site cleanup will take 15 years, whether or not off-site pumping occurs.

During the last quarter, Fairchild operated the on-site extraction system continuously at a rate of about 95 gpm, discharging the treated groundwater to the storm drain. Total discharge volume for the quarter was about 9 million gallons. Board staff inspected the site on 2/6/95 and approved a groundwater recharge proposal on 2/10/95. The project would recharge treated groundwater just outside the slurry wall in lieu of a surface water discharge.

The off-site extraction wells were shut down as part of the approved demonstration project. The no-pumping program will continue through at least 1998, provided the off-site plume remains stable. During this period, VOC concentrations did not increase or migrate, consistent with modelling results and prior sampling results.

During the next six months, Fairchild will continue onsite groundwater extraction. The Board amended Fairchild's site cleanup requirements on 4/19/95 to allow removal of the SVE system and to modify monitoring and reporting requirements. Fairchild will remove the SVE system, relocate the groundwater treatment system and associated piping (pursuant to prior authorization), and install the groundwater recharge wells and associated piping. Site redevelopment may begin, if local agencies approve the landowner's plan for a retail commercial development on the site.

HEWLETT-PACKARD, 640 PAGE MILL ROAD, PALO ALTO

Background: The Regional Board adopted final site cleanup requirements for the California, Olive and Emerson Streets (COE) area, which includes the 640 and 395 Page Mill Road and 601 California street sites, in September 1994. The Record of Decision (ROD) was adopted by U.S. EPA on April 13, 1995. The approved cleanup plan includes soil vapor extraction, groundwater extraction, and associated treatment.

Last Quarter: The current groundwater extraction and treatment system consists of three wells on the HP 640 site, eight wells in the COE area, and four wells at the Varian 601 site. Last quarter, the system extracted and

treated about 5 million gallons. Varian reused about 354,500 gallons of the treated groundwater for on-site irrigation. Soil vapor extraction consists of 18 SVE wells at the Varian 601 site and 15 SVE wells at the HP 640 site, and the system treated about 37 million cubic feet of soil vapor in the past quarter.

On February 1, 1995, HP submitted a workplan for Area X remediation at the 395 Page Mill Road site. This workplan proposes a pilot study of two-phase extraction system to simultaneously extract soil vapor and groundwater extractions. Board staff reviewed and verbally approved the proposed workplan. On April 20, 1995, HP also submitted a groundwater reuse application for on-site landscape irrigation. Installation of the remaining three off-site monitoring wells (at the Dura Bond property) will proceed once an access agreement with the property owner is reached. Due to planned redevelopment activities at the Hobach property (between Park Blvd. and Sheridan Avenue), five piezometers (P1-1 thru P1-5) were decommissioned on March 22 through 24, 1995.

Next Two Quarters: HP and Varian will continue operating the SVE and groundwater extraction and treatment system. HP and Varian will submit a technical report evaluating the effectiveness of the existing soil vapor extraction and treatment system in July 1995. Construction of the expanded groundwater extraction is expected to be completed by October 1995.

HEWLETT-PACKARD, 1501 PAGE MILL ROAD, PALO ALTO

Background: The Regional Board adopted final site cleanup requirements in August 1994. The approved cleanup plan requires Hewlett-Packard (HP) to expand its soil vapor extraction and groundwater extraction system at this site.

Last Quarter: HP continued to operate soil vapor extraction and groundwater extraction facilities, extracting about 1.4 million gallons of groundwater last quarter. HP submitted two technical reports: application of notice of intent for an NPDES general permit (2/24/95) and report on institutional constraint procedures (3/1/95), and Board staff is reviewing them. Design for the on-site groundwater conveyance piping and treatment facility (third phase) was completed this quarter, and construction has started in April. HP conducted additional soil borings near the former tank 4A/4B and 4F/4G area for use in the design of the expanded SVE system. In February, HP performed pilot testing of the expanded SVE system to determine engineering design parameters. HP installed one new

soil vapor extraction well in addition to the existing five wells.

Next Two Quarters: HP will continue operating the soil vapor extraction and groundwater extraction systems. Work related to the expansion of the groundwater extraction and treatment system will also continue throughout the upcoming quarter. HP will complete construction of the expanded groundwater extraction system in September 1995. HP will submit the final design of the expanded soil vapor extraction by June 22, 1995, and will finish construction in October 1995.

HEXCEL CORPORATION, LIVERMORE, ALAMEDA COUNTY

No longer part of MSCA -- now a state lead

INTEL, SANTA CLARA III, Santa Clara

The Final RAP for the site was adopted by the Board in July 1990. The cleanup plan for this site consists of groundwater extraction and treatment by carbon adsorption. Intel submitted a report titled "Cyclic Pumping Demonstration Project, Evaluation and Evaluation Recommendations for Further Actions" in late 1991. Cyclic pumping (also known as pulsed pumping) is believed to be a method for improving groundwater remediation efficiencies.

Based on this October 1991 report, Intel has tried both 60-day on/60-day off and 120-day on/120-day off pumping cycles. Intel has submitted effectiveness reports on these cycles that conclude that these pumping cycles are no more efficient than continuous pumping. In response to requests by Board staff, Intel proposed a new demonstration project involving various cyclic pumping schemes that began on January 15, 1993. These additional pumping trials did not show any significant improvement over the previous trials or continuous pumping. After meeting with Intel to discuss the latest cyclic pumping results, Board staff approved Intel's request for a twelve month trial period with all pumps off. During this trial, monitoring wells were sampled quarterly to determine if there were any plume migration or concentration changes. The monitoring results of this twelve month off trial indicate no significant migration or changes in plume concentrations. or Intel has submitted a petition requesting that the Board change the point of compliance with the site's groundwater cleanup standards from all areas of the site, to the property boundary of the site. Intel claims that groundwater cleanup standards are not likely to be met onsite using available technology and that groundwater extraction is no longer providing significant reduction of groundwater contamination. Intel believes that

remaining contamination will not migrate from the site and that the site can be managed such that there is minimal risk from the remaining contaminants in the groundwater. Board Staff has reviewed the petition and have solicited USEPA's opinion on this issue. Intel has also requested that this site be delisted from the NPL.

Activities this quarter: The groundwater extraction system was not operating due to the ongoing trial period during which the extraction system has been shut down. The extraction system remains shut down. Board Staff, Intel, and EPA met to discuss Intel's request that the site be considered for non-attainment area status.

Projected events for the next two quarters: Board staff will review the results of the ongoing pumps off trial period. The five year review for this site is scheduled to occur in 1995. It is expected that the Regional Board will probably consider this site for non-attainment area status later this year.

INTERNATIONAL BUSINESS MACHINES, SAN JOSE

The final Remedial Action Plan (RAP) was adopted by the Regional Board in October 1988. It set cleanup standards similar to those for Fairchild (San Jose) and included SVE (on-site) and continued groundwater extraction (on and off-site).

During the last quarter, IBM extracted and treated about 97 million gallons of groundwater, reusing about 76 million gallons (or 78%) of this total volume. All onsite extracted groundwater was reused, by reinjection, landscape irrigation, or as feed water for industrial use. Most off-site groundwater was discharged to Canoas Creek. The soil vapor extraction system continued to be effective, removing about 1,400 pounds of VOCs and hydrocarbons from on-site soils during the quarter. The on-site air stripper and associated extraction wells were shut down for the first half of January due to pumpcontrol telemetry problems. The off-site groundwater plume remained stable. IBM increased off-site extraction from 120 to 210 gpm in February in response to minor increases in chemical concentrations in some wells. Board staff inspected the site on 2/3/95.

During the next six months, IBM will continue its cleanup program. IBM will attempt to close two private, off-site wells (Magic Sands MHP and Town & Country MHP) to eliminate a potential vertical conduit.

MICRO STORAGE/INTEL MAGNETICS, SANTA CLARA

The Final Remedial Action Plan (RAP) for the site was adopted by the Board in July 1991. The Record of Decision (ROD) was signed in August 1991. The cleanup plan for this site includes groundwater extraction and treatment by carbon adsorption.

Activities this quarter: During the last quarter, operation of the groundwater extraction and treatment system continued. There was an NPDES violation for selenium in the discharge. The selenium in the discharge is due to naturally occurring selenium levels in the groundwater at the site. Approximately 474,430 gallons of groundwater were extracted, treated, and discharged into the storm drain. The Board adopted an amendment to the final RAP in November 1993 naming International Diagnostic Technologies (IDT) and Boehringer Ingelheim (BI) as additional primary responsible parties. BI appealed the amendment to the State Board. The State Board has dismissed the appeal in a decision issued during the first quarter.

Projected events for the next two quarters: The discharger has requested that they be considered for inclusion under the Board's Non Attainment Policy, whereby the point of compliance for the groundwater cleanup standards be altered to allow an area where groundwater VOC levels exceed the cleanup standards specified for the site. Board Staff will evaluate the request.

NATIONAL SEMICONDUCTOR CORPORATION & ADVANCED MICRO DEVICES (1165 ARQUES, FORMERLY MONOLITHIC MEMORIES), SUNNYVALE / SANTA CLARA

National Semiconductor Corporation (NSC), along with Advanced Micro Devices (AMD) is one of two dischargers located within an area in eastern Sunnyvale/western Santa Clara, designated as Operable Unit 1. OU1 has been subdivided into 3 subunits. NSC is responsible for remediating subunit 1, AMD is responsible for remediating subunit 2, and both NSC and AMD are responsible for remediating subunit 3 (the comingled area downgradient of both NSC and AMD). NSC is continuing to implement the cleanup plan specified in the ROD adopted in September 1991. Soil is being remediated utilizing soil vapor extraction. Groundwater is being remediated via groundwater extraction and treatment.

During the last quarter, 33 groundwater extraction wells were in operation within subunit 1, and 3 groundwater extraction wells and a large dewatering system were in

operation in subunit 3. A number of others extraction wells were out of service because of low water levels. The total volume of groundwater extracted from subunits 1 and 3 (excluding the dewatering system) was over 30.6 million gallons, averaging 236 gpm. The total VOC mass removed was 139 pounds. Three groundwater treatment systems are utilized to treat extracted groundwater, which is discharged under NPDES permit. Groundwater monitoring indicates that contaminant concentrations within the A and B1 aquifer have generally declined. SVE extraction systems are operational at five source areas. SVE system design and installation has been initiated at 5 other source areas. A total of 1958 pounds of VOCs have been removed from the site.

During the next two quarters, NSC will complete installation of SVE systems at two additional source areas, and will continue to operate on and off-site groundwater extraction systems. In addition, Board staff will require submittal of a workplan for further investigation at the western boundary of Subunit 3.

Advanced Micro Devices (AMD), along with National Semiconductor Corporation (NSC), is one of two dischargers located within an area in eastern Sunnyvale/western Santa Clara, designated as Operable Unit 1. OU1 has been subdivided into 3 subunits. NSC is responsible for remediating subunit 1, AMD is responsible for remediating subunit 2, and both NSC and AMD are responsible for remediating subunit 3 (the comingled area downgradient of both NSC and AMD). AMD is continuing to implement the cleanup plan specified in the ROD adopted in September 1991. Soil is being remediated utilizing soil vapor extraction. Groundwater is being remediated via groundwater extraction and treatment.

During the last quarter, 12 groundwater extraction wells were in operation within subunit 2. The total volume of groundwater extracted from subunit 2 was 3.7 million gallons, averaging 32 gpm. The total VOC mass removed was 13.4 pounds. An air stripper is utilized to treat extracted groundwater, which is discharged under NPDES permit. Groundwater monitoring indicates that contaminant concentrations within the A aquifer has generally declined; however, B aquifer concentrations appear to be stable. SVE extraction at one source area has continued to operate, removing a total of 7 pounds during the quarter. Subunit 3 activities are described in the MSCA update for NSC.

During the next two quarters, AMD will collect soil samples from areas currently under soil vapor extraction (provided that rising groundwater elevations do not

prohibit the sampling), and will continue to operate the soil and groundwater remediation systems.

RHONE-POULENC/SANDOZ, EAST PALO ALTO

Background: In order to expedite investigation and cleanup, the Site was divided into Upland and Wetland Operable Units in 1991. The RAP/ROD for the Upland Operable Unit was approved February 1992. The remedial action plan consisted of: removal of highest concentration soil (>5,000 mg/kg arsenic); treatment of soil containing between 500-5,000 mg/kg arsenic; capping of all soil with concentration of arsenic >70 mg/kg; deed restrictions of any property containing >70 mg/kg arsenic; slurry wall to contain groundwater; and, a groundwater contingency plan to prevent further migration of pollutants. In order to expedite remediation further, the Ecological Assessment was divided into Non-tidal and Tidal Wetland Reports. Based on the Ecological Assessment report for the Nontidal Wetland, the Upland OU RAP/ROD boundaries were amended using an Explanation of Significant Difference which was adopted in March 1994 to annex the Non-tidal Wetland portion of the Wetland OU into the Upland OU. The remedy adopted for the Upland OU was then applied to the Non-tidal Wetland area.. The revised draft Ecological Assessment for the Tidal. Wetland was submitted to the agencies in June 1994. Upon approval of this document by the agencies, an Ecological Risk Assessment, Feasibility Study report and Proposed Plan shall be developed for the Wetland OU. A RAP/ROD for the Wetland OU may be completed during 1995.

Activities this quarter: During the last quarter Board staff met with Rhone-Poulenc and an adjacent onsite property owner to discuss capping requirements for the property. Staff also facilitated negotiations between the parties in order to develop a capping scenario which is both protective and will have the least impact on future land use. The final capping of the property is scheduled for the spring or summer 1995. Currently the parties have not come to an acceptable agreement and the property owner is threatening to appeal the RAP/ROD.

Activities Anticipated The Next Two Quarters: During the next two quarters Board staff shall continue to try and facilitate negotiations over the capping of the adjacent property.

Agencies and Rhone-Poulenc shall meet to discuss the Ecological Assessment Errata. Upon acceptance by the agencies of the Errata, a meeting will be held to outline the Ecological Risk Assessment, which is the next phase of the project. Rhone-Poulenc has indicated that the Ecological Risk Assessment shall require approximately

3 months to complete. Concurrently, the agencies shall work with Rhone-Poulenc to develop remedial alternatives to be developed as part of the Wetland Feasibility Study.

Also during the next two quarters, Board staff intend to facilitate a meeting with Rhone-Poulenc, EPA, NOAA and USFWS to decide on the wetland mitigation project for the Bay Road Site. Board staff would like agreement from all agencies in order that Rhone-Poulenc may pursue further its negotiations with the necessary parties and implement the mitigation project.

SIEMENS COMPONENTS INC., 19000 HOMESTEAD ROAD, CUPERTINO; INTERSIL INC., 10900 N. TANTAU ROAD, CUPERTINO

Background: The Regional Board adopted final Site Cleanup Requirements (SCR) for these two adjacent Superfund sites in August 1990, and EPA issued a concurring ROD. The final SCR required additional groundwater extraction wells and soil vapor extraction wells. All work needed to implement the final SCR has been completed. Intersil has 7 groundwater extraction wells (an SVE system was successfully operated and has been removed). Siemens has 10 soil vapor wells and 18 groundwater extraction wells. The two companies jointly operate 3 extraction wells:

Last reporting period: Siemens/Intersil continued implementing the approved cleanup plan, extracting and treating 19.5 million gallons of groundwater and removing 45 pounds of VOCs (on-site and off-site). Both dischargers are concerned about remedial activities at the adjacent AMI site. AMI operates an on-site groundwater extraction system, and recently started up an off-site groundwater extraction system. Siemens/Intersil are concerned that AMI is not capturing its groundwater plume, and that the plumes will eventually commingle. They would like the Board to adopt site cleanup requirements for AMI. AMI does not believe that all of the contamination is coming form their site. They are looking at the possibility of other contributors such as Intersil/Siemens.

Next two quarters: The dischargers will continue remediation activities. An initial site cleanup requirements for AMI is scheduled for the June Board meeting.

SOLVENT SERVICE INC. (SSI), 1021 BERRYESSA ROAD, SAN JOSE

The Final Remedial Action Plan (RAP) for the site was adopted by the Board in August 1990. A ROD for this site was adopted 9/27/90. The site was removed from the

NPL circa 8/90 and is now a RCRA site. The Cleanup Plan includes groundwater extraction/treatment and soil vapor extraction/treatment, and capping of the entire site. Steam-enhanced vacuum extraction has been discontinued because engineering evaluation showed that SVE was just as effective as SIVE and was less costly. Groundwater and vapor are treated by bio-treatment, carbon filtering and air stripping.

Activities this quarter: Solvent Service, Inc. (SSI), formerly of USPCI, is now part of the USPCI/Laidlaw organization. Board Staff agreed with SSI's request to terminate extraction from well RW-4A, but recommended that the well be maintained as a groundwater monitoring well. SSI submitted the 1994 Annual Report and the January-March 1995 Quarterly Report, as required. SSI also submitted a proposal to remediate off-site pollutant migration which was reviewed by Staff and found acceptable. Implementation of the proposed action has been delayed due to objections raised by Richard Crocker, new owner of the adjacent "downgradient" property. Staff met with Mr. Crocker and his representatives in April (next/current quarter) to discuss the objections, and has scheduled a May meeting (to include SSI) for further discussion, and an attempt to resolve the issues raised. SSI has prepared a preliminary outline for the Five-Year Status Report, which has a due date of August 21, 1995.

Several Board Staff members were deposed and interrogated by parties involved in litigation, concerning SSI's operations. In April (next/current quarter) the Regional Board adopted updated Site Cleanup Requirements for the Chevron site (fuel terminal) near the SSI site. A fuel-hydrocarbon-in-groundwaterplume which originates on the Chevron site is present along the western side of the SSI site.

Projected events for next two quarters: It is anticipated that periodic Self-Monitoring Reports will be submitted as required. Submittal of the Five-Year Status Report for Staff review is also anticipated. A meeting to discuss objections to SSI's off-site remediation proposal will be held in the Board Office in Oakland, probably in May. Staff may be called upon to provide further testimony concerning SSI's operations.

SYNERTEK #1, SANTA CLARA

The Final RAP for the site was adopted by the Board in March 1991. The cleanup plan includes groundwater extraction and treatment by air stripping.

Activities this quarter: During the last quarter 1,566,832 gallons of groundwater were extracted and 1.98 pounds

of VOCs were removed. There were no NPDES violations.

Projected events for the next two quarters: Routine review of self monitoring reports.

TELEDYNE SEMICONDUCTOR, 1300 TERRA BELLA AVE., SPECTRA-PHYSICS INC., 1250 WEST MIDDLEFIELD ROAD, MOUNTAIN VIEW

Background: The Regional Board adopted final Site Cleanup Requirements for these two adjacent Superfund sites in February of 1991, and EPA issued a Record of Decision. The approved cleanup plan requires SVE at the Spectra-Physics facility and groundwater extraction off-site and at the Teledyne facility. The off-site area includes the North Bayshore area, which contains several additional sources of VOC contamination.

Teledyne sold Teledyne Components (formerly Teledyne Semiconductors) located at 1300 Terra Bella to TELCOM Semiconductors, Inc. in 1993. Teledyne continues to own the property and the building which was previously occupied by Teledyne Components and is now leased to TELCOM.

The Board issued initial Site Cleanup Requirements in January 1993 to the previous owners of the former Montwood site which is in the offsite area. The onsite groundwater remediation system started operation in October of 94. This system is hooked up to the North Bayshore Extraction System, installed and operated by Teledyne/Spectra-Physics. On December 14, 1994 the Board adopted an SCR for 1098 Alta. They have installed an onsite SVE and groundwater extraction and treatment system.

Last quarter: Teledyne and Spectra-Physics continued implementing the approved cleanup plan, extracting and treating 33.6 million gallons of groundwater and removing 148 pounds of VOCs (on-site and off-site).

Teledyne and Spectra-Physics had to abandon 2 extraction wells and two monitoring wells because of a major construction project by Silicon Graphics at Farmers Field. Montwood replaced the two extraction wells. The two monitoring wells will be replaced later.

Teledyne, Spectra-Physics and Montwood filed a demand to convene the arbitration panel for the NBAR hearing. The hearing has not been scheduled yet. All the PRPs have sent in their estimate of how long it will take them to present their case.

Additional off-site work includes investigation/remediation activities at Montwood, Santa Clara County Transportation Agency, 1098 Alta Avenue, and Space Park Way site.

Peery/Arrillaga (1098 Alta) had to remove an offsite well because of construction of the Silicon Graphics building on Farmers Field. They will be installing monitoring wells in the offsite area and will be observing them for 1 year to see if extraction in the offsite area is needed. Construction of the offsite wells will have to be coordinated with the construction project.

The preliminary groundwater investigation conducted in the Space Park Way area indicated that there may be a source at or around 1625 N. Shoreline Blvd. The current owner is conducting a soil investigation to determine if there is a source onsite.

Next two quarters: Teledyne and Spectra-Physics will continue to implement the approved cleanup plan, and North Bayshore dischargers will continue investigation and interim remedial actions. Regional Board staff will continue investigating the North Bayshore area to determine the extent of other sites contribution to groundwater contamination in the area, and will work towards bringing these dischargers under a Regional Board order.

VAN WATERS & ROGERS, INC, 2256 JUNCTION AVENUE, SAN JOSE

The final RAP was approved on September 18, 1991 under Site Cleanup Order No. 91-138. The cleanup Plan consists of: soil vapor extraction (SVE) of accessible hot spots, extraction and treatment of groundwater in the A and B aquifers until cleanup standards are met, and long term monitoring.

During the last quarter, VW&R extracted and treated about 5.5 million gallons of groundwater, including an average of 15,000 gallons per day from the A-aquifer and 28,000 gallons per day from the B-aquifer. Chemical concentrations remained similar to the previous quarters. VW&R's discharge is regulated under a NPDES general permit for discharges from cleanup efforts involving VOCs in groundwater.

Board staff approved a workplan for horizontal drilling to investigate the soil and groundwater underneath their tank farm on March 31, 1995. Field activities are scheduled to begin on the week of May 22 and continue for ten days. A report summarizing the field activities and findings will be submitted by July 30, 1995.

During the next six months, SVE and extraction will continue. Board staff will review the horizontal drilling report and provide guidance on further work to be done.

<u>US EPA and CAL/EPA - DTSC LEAD SITES:</u> (RWQCB is the support agency)

JASCO, MOUNTAIN VIEW

EPA issued the ROD in September 1992. The cleanup plan calls for expanded groundwater extraction, treatment prior to POTW discharger, a deed restriction prohibiting wells in shallow groundwater, and ex-situ bioremediation of soils. EPA issued an administrative order for Remedial Design/Remedial Action in December 1992. EPA has approved Jasco's request to pilot-test an alternative approach: air sparging and soil vapor extraction.

During the last quarter, cleanup activities continued at this site, including interim groundwater extraction with POTW discharge.

During the next six months, Jasco will implement pilot testing of air sparging and soil vapor extraction. (Pilot testing began in April and should be completed in May.) EPA staff will continue reviewing Jasco design documents. EPA's response is likely to depend on the results of the pilot testing.

LIQUID GOLD, 580 FWY NEAR HOFFMAN MARSH, RICHMOND, CONTRA COSTA COUNTY

Current Status: Between June 93 and June 94, Cal/EPA-DTSC approved the proposed remedial action plan and its associated design. The proposed remedial action consisted of excavating sediment from the drainage channels, placing the excavated sediment on the former activity area of the site, and covering this area with two feet of clean soil. These field activities including seeding of the site and caring for the new vegetation have been completed.

Southern Pacific Lines currently maintains this cover and conducts monitoring activities as required by the Operation and Maintenance Plan prepared for this facility.

Projected Activities: Over the next six months, the effectiveness of these corrective actions will be evaluated through monitoring activities conducted at the site.

LORENTZ BARREL AND DRUM, SAN JOSE

The Record of Decision (ROD) for the shallow groundwater at the site was signed by the EPA in September 1988.

No actions by the RWQCB this quarter. Minimal activity expected for next several quarters.

MIDDLEFIELD-ELLIS-WHISMAN SITES, MOUNTAIN VIEW

EPA adopted a cleanup plan for the MEW area in June 1989. In mid-1991, EPA and two of the companies - Intel and Raytheon - signed a consent decree covering implementation of final cleanup activities; it received court approval in April 1992. EPA issued a unilateral enforcement order to Fairchild and other MEW dischargers in November 1990.

Various responsible parties at the site have submitted RD/RA reports in response to the unilateral order or the consent decree. The companies have proposed a regional remediation system (south and north of Highway 101); the system north of Highway 101 is closely linked to cleanup activities at Moffett Field Naval Air Station.

During the last quarter, interim remediation continued at several MEW on-site areas. Fairchild, Raytheon, and Intel collectively extracted and treated 17.8 million gallons of contaminated groundwater, discharging 17.3 million gallons to surface waters and reusing the remainder. EPA staff approved final source control plans for Fairchild (4 locations), Raytheon, and Intel during this period. Implementation of some source control plans commenced.

During the next six months, the companies will continue interim groundwater remediation and implement approved source control plans. EPA will review the final design for the regional system (both south and north of Highway 101). Design of a reuse project will wait until regional-system designs are approved; NASA Ames is a big potential user of treated groundwater.

MOFFETT FIELD NAVAL AIR STATION, MOUNTAIN VIEW / SUNNYVALE (DOD FACILITY)

Not part of South Bay MSCA.

As of March 1, 1992, oversight responsibility for this site was transferred to another Regional Board division, which will be reporting through the Department of Defense federal facilities agreement (FFA). In mid-1993, the Navy and NASA established an agreement over responsibility for cleanup following the transfer of Moffett Field to NASA jurisdiction.

UNITED HECKATHORN (AKA: LEVIN METALS), 402 WRIGHT AVENUE, RICHMOND, CONTRA COSTA COUNTY

The United Heckathorn Superfund Site is the former location of a DDT reformulation and packaging facility. Large quantities of DDT were released during site operations and remain present in bay sediments. The approved remedial action plan specifies dredging of affected sediments in the Lauritzen Channel and Parr Canal.

A settlement regarding responsibility for cleanup costs has not yet been achieved. Negotiations have been ongoing during the current quarter. The total private contribution for cleanup is expected to be approximately \$9,000,000.

The remedy for the site specifies dredging of DDT and dieldrin contaminated sediments from the Lauritzen Channel and Parr Canal. July 1, 1995 is scheduled as the commencement date for dredging operations.

WESTINGHOUSE, SUNNYVALE

The Record of Decision for this EPA lead site was signed on October 16, 1991. EPA reached agreement with Westinghouse to start remedial design in February 1992.

EPA and Westinghouse have failed to reach agreement for a Consent Decree for final remedial action. Instead, EPA issued an administrative order in September 1993 that compels Westinghouse to perform the full-scale cleanup plan as designed. The remedial design package was finalized and submitted to EPA during March 1994.

Activities this quarter: Shakedown of the pilot groundwater treatment and extraction system started December 30, 1992, and the system has been operating since then. During the first quarter 1995 approximately, 187,347 gallons of groundwater was extracted. Approximately 0.46 pound of PCBs was removed during the first quarter, bringing the total removed since startup to approximately 19.54 pounds. Initial system discharge is to the City of Sunnyvale's sanitary sewer. Full scale groundwater extraction and treatment was scheduled for early 1995, however access problems due to heavy rains has caused delays.

Projected events for the next two quarters: The discharger plans to complete UST tank removal and PCB area soil excavation activities, and complete installation of extraction wells. Westinghouse has submitted the final remedial action work plan.

STATUS OF REGIONAL BOARD MSCA SUPPORT CONTRACTS

DATA VALIDATION (INTERAGENCY AGREEMENT W/CSDHS)

The data validation agreement called for the California Department of Health Services (DHS) to conduct data validation on analytical data from selected groundwater samples for eighteen Superfund sites. To date, DHS has reviewed 36 data validation packages from MSCA sites. Most sites have undergone at least two rounds of data validation.

The data validation agreement expired in 1992. A new agreement will be negotiated if further data validation is needed.

TECHNICAL ASSISTANCE CONTRACT

The contract is expired but may be re-advertised depending upon needs to be determined at a later date.

BASELINE PUBLIC HEALTH EVALUATION CONTRACT (W/ICF CLEMENT)

The contract is expired and is not expected to be renewed. RWQCB will use in-house (RWQCB or US EPA) toxicologist if necessary during the next year.

SUPERFUND LABORATORY CONTRACT

The Superfund lab contract expired June 30, 1993, and is not expected to be renewed. Minimal activity is expected in this area compared to past activities. Where sampling and analyses is required at MSCA site, RWQCB staff will utilize existing RWQCB contracts and bill MSCA accordingly.